

# Web App Development With Vue



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# Introduction

# Why Vue?

## What is Vue?

Vue (pronounced /vju:/, like **view**) is a JavaScript framework for building user interfaces. It builds on top of standard HTML, CSS and JavaScript, and provides a declarative and component-based programming model that helps you efficiently develop user interfaces, be it simple or complex.

Here is a minimal example:

```
import { createApp } from 'vue'  
  
createApp({  
  data() {  
    return {  
      count: 0  
    }  
  }  
}).mount('#app')
```

```
<div id="app">  
  <button @click="count++">  
    Count is: {{ count }}  
  </button>  
</div>
```

## Result

Count is: 0

The above example demonstrates the two core features of Vue:

- **Declarative Rendering:** Vue extends standard HTML with a template syntax that allows us to declaratively describe HTML output based on JavaScript state.
- **Reactivity:** Vue automatically tracks JavaScript state changes and efficiently updates the DOM when changes happen.

You may already have questions - don't worry. We will cover every little detail in the rest of the documentation. For now, please read along so you can have a high-level understanding of what Vue offers.

# Basic examples

```
index.html +  
1 v <script type="module">  
2   import { createApp, ref } from 'vue'  
3  
4 v createApp({  
5 v   setup() {  
6     // component logic  
7  
8 v   return {  
9     // exposed to template  
10    }  
11  }  
12 }).mount('#app')  
13 </script>  
14  
15 v <div id="app">  
16 v   <h1>Hello World!</h1>  
17 </div>
```

PREVIEW

Hello World!

```
index.html +  
1 v <script type="module">  
2   import { createApp, ref } from 'vue'  
3  
4 v createApp({  
5 v   setup() {  
6     const count = ref(0)  
7  
8 v   return {  
9     count  
10    }  
11  }  
12 }).mount('#app')  
13 </script>  
14  
15 v <div id="app">  
16 v   <!-- make this button work -->  
17 v   <button>count is: {{ count }}</button>
```

PREVIEW

count is: 0

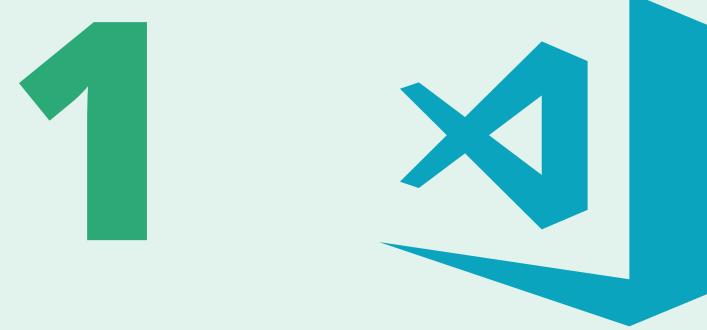
```
index.html style.css x +  
1 v <script type="module">  
2   import { createApp, ref } from 'vue'  
3  
4 v createApp({  
5 v   setup() {  
6     const titleClass = ref('title')  
7  
8 v   return {  
9     titleClass  
10    }  
11  }  
12 }).mount('#app')  
13 </script>  
14  
15 v <div id="app">  
16 v   <h1 :class="titleClass">Make me red</h1>  
17 </div>
```

PREVIEW

Make me red

# Environment Setup

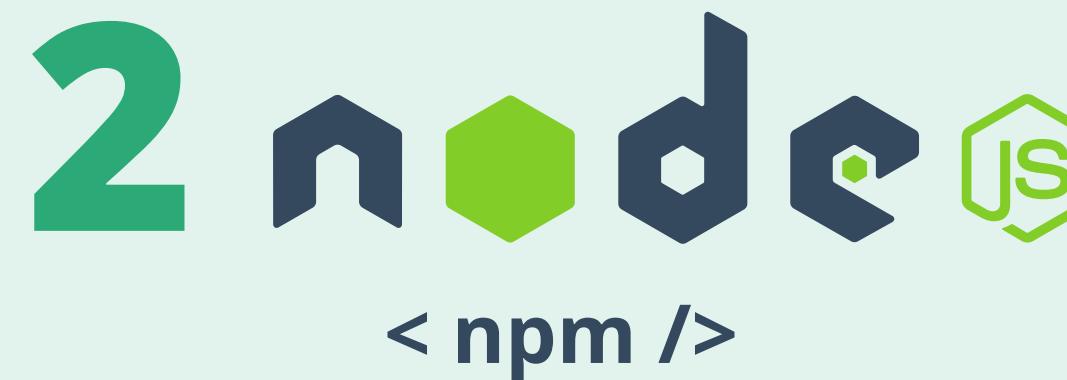
# Dev Tools



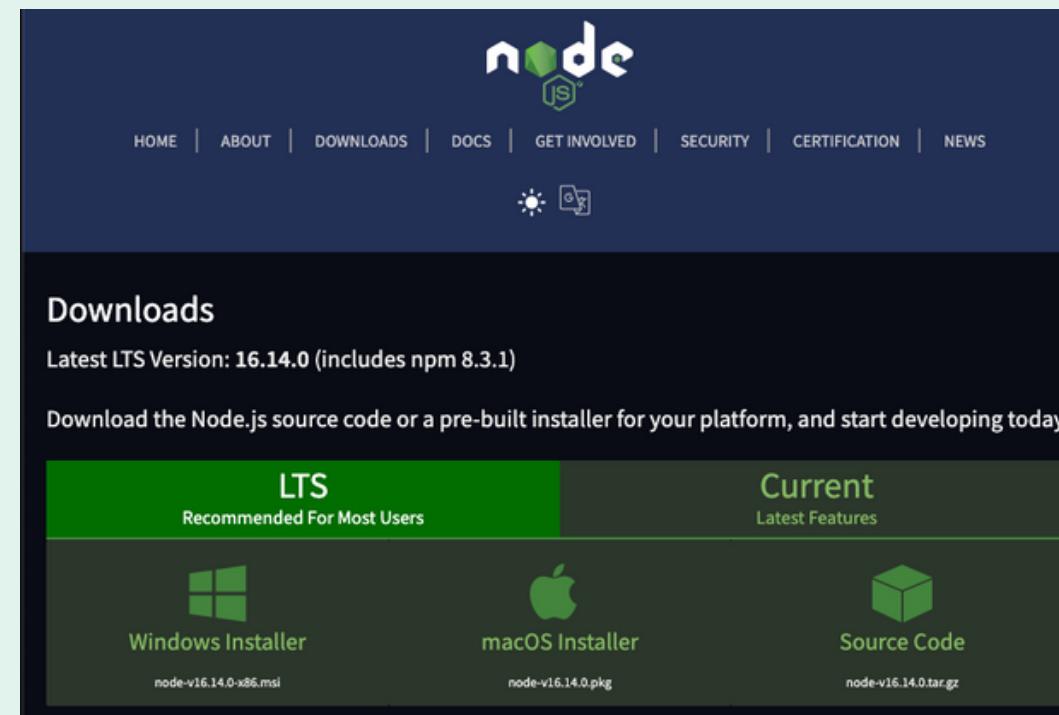
## 1 Visual Studio Code

### Useful VS Code extensions

- Volar extension
- Django Templates
- Django Templates and Backend snippets
- Prettier
- Material icon



<https://nodejs.org/en/download/>



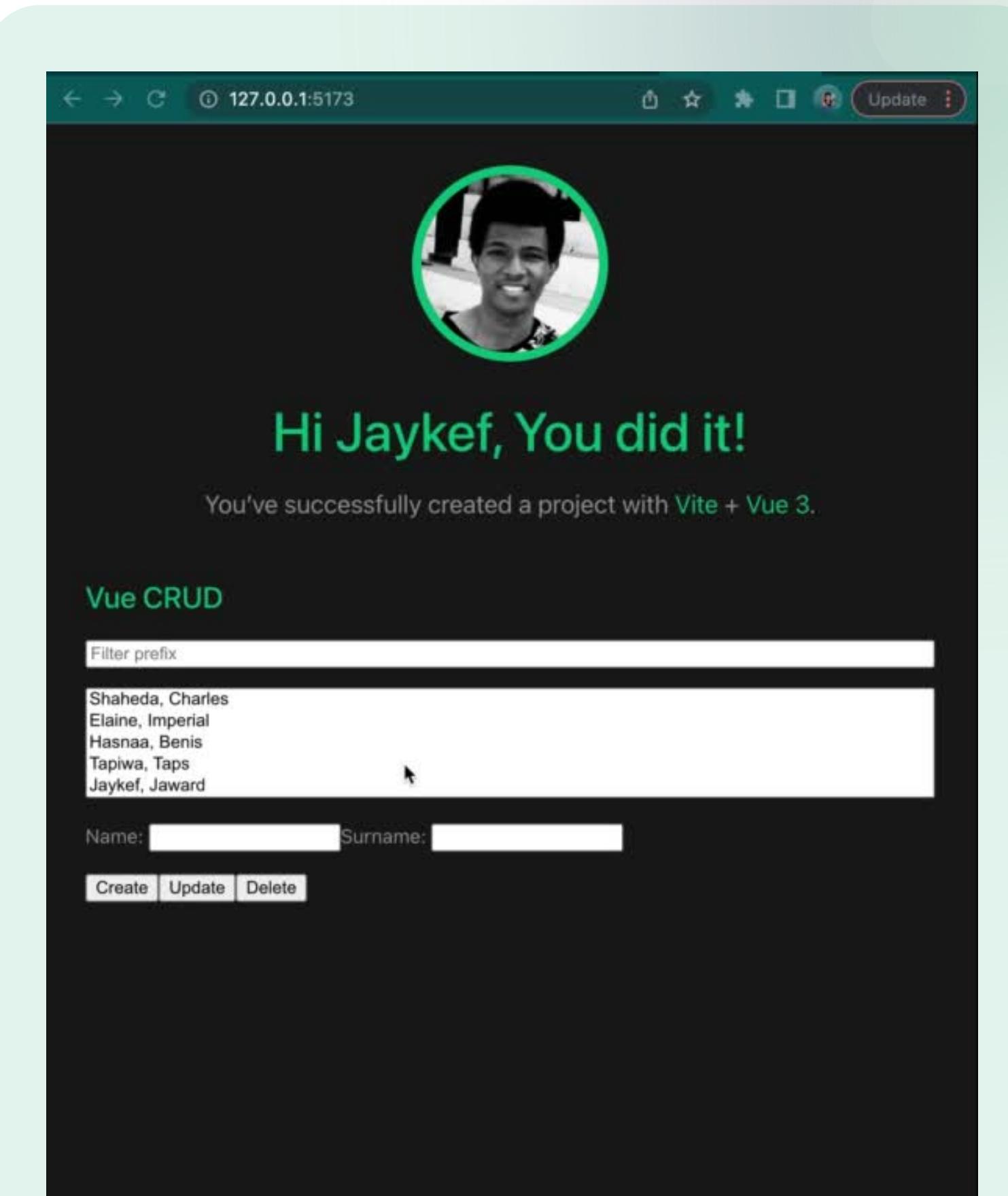
<https://vuejs.org/guide/introduction.html>



# **Vue CRUD App**

# Project 0

A vue CRUD  
web app using  
vue build tools



**The End**

**See You Next Week**